

# Dynamic Positioning and Control Systems

## L-3 NMS6000 Class 1 Dynamic Positioning System



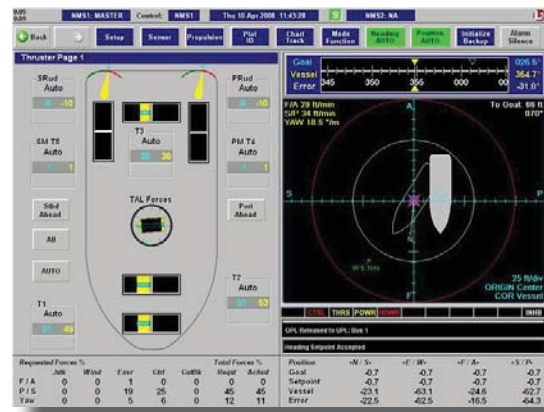
Through several generations of proven industry success, L 3's NMS6000 Dynamic Positioning Systems now provide a new level of advanced vessel control. Each NMS6000 Class 1 system includes a Class 0 DP system, and a Joystick system to providing a complete solution designed to meet regulatory requirements. Increased sensor interfaces and a manual change over between the two systems ensure full regulatory compliance.

Some key system features:

- Integrated three-axis joystick control
- Automatic heading control
- Automatic position control
- Automatic "Hold Area" for improved fuel economy
- Wind Compensation
- Independent backup joystick control
- Optional modes including high- and low-speed Track Follow, Fire Monitor Compensation, and ROV Follow with watch circle capability

Easy to upgrade, the NMS6000 can be configured to meet virtually any customer requirement with added inputs and enhanced software modes. Additional workstations, if required, can be added for higher specification systems and extended user interfacing.

This system also meets the USCG minimum level required for vessels working with hazardous material transfers such as fuel and drilling mud. Exceptional flexibility allows the NMS6000 system to work with other third party joystick systems to meet Class 1 regulations. Applications for Class 1 systems include, offshore support vessels, research vessels, survey vessels and yachts.



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## Proven Vessel Control and Monitoring Solutions

### The Benefits

- Latest Type-Approved industry standard hardware –Active Matrix TFT LCD displays with touch screen and available integrated PCs provide high levels of performance, reliability and supportability.
- Flexible and scalable – Commercial-Off-The-Shelf hardware and software platforms provide a system that can be supplied at the appropriate level to meet current requirements but still easily adapt to growing customer needs.
- Network/server architecture – Using WINDOWS XP Server OS allows remote control and monitoring stations to be strategically placed throughout the vessel.
- Distributed control – Minimizes long cable runs, reducing shipboard cable costs and improving reliability.
- Integrated system – Standard network protocols including ModBus, RS232, RS422, RS485 allow data from a wide range of other manufacturers' systems to be easily integrated into the NMS6000.
- Flexible installation – A variety of hardware options available ranging from components for mounting in existing consoles to complete console arrangements custom designed by L-3 DP&CS.
- Regulatory compliance – NMS6000 systems meet all appropriate regulatory requirements.



Dynamic Positioning Console



Work Station Components

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